



# AFCTN Test Report 94-124

AFCTB-ID  
94-065



## TMSS Parsing Test



## MIL-M-87929A, Appendix A, Work Package



## Document Type Definition



## MAXIMA Corporation

DISA Contract #DCA100-93-D-0065

## Quick Short Test Report

31 May 1994



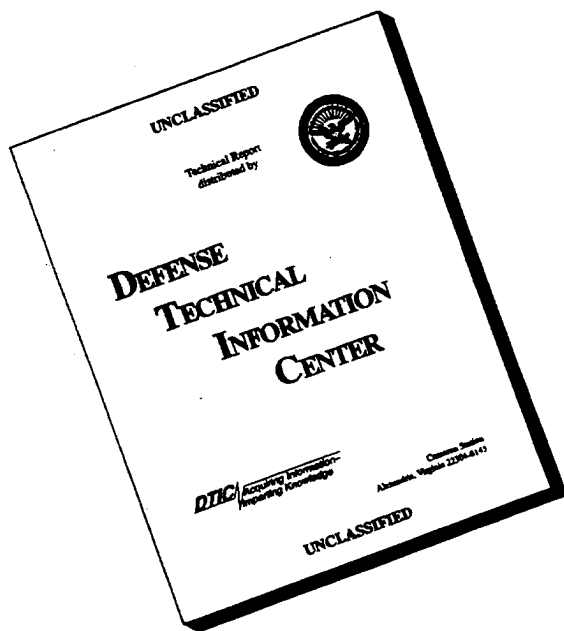
*Prepared for  
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Air Force CALS Program Office  
HQ ESC/AV-2  
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Dayton OH 45431-1672*

19960321 119

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**AFCTN Test Report**  
**94-124**

**AFCTB-ID**  
**94-065**

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**TMSS Parsing Test**  
**MIL-M-87929A, Appendix A, Work Package**  
**Document Type Definition**  
**For:**  
**MAXIMA Corporation**  
**DISA Contract #DCA100-93-D-0065**

**Quick Short Test Report**

**31 May 1994**

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# **Air Force CALS Test Bed**

## ***Notification of Test Results***

**31 May 1994**

This notice documents the results of an Air Force CALS Test Bed (AFCTB) Quick Short Test Report (QSTR) evaluation of data submitted by:

### **MAXIMA Corporation**

Identified as follows:

Title:	<b>MIL-M-87929A, Appendix A, Work Package DTD Parsing Test</b>
Program:	<b>DISA</b>
Program Office:	<b>DISA</b>
Contract No.:	<b>DCA100-93-D-0065</b>
QSTR No.:	<b>AFCTB-ID 94-065</b>

Received on the following media:   **3.5" Diskette**

The results of the QSTR evaluation are as follows:

MIL-STD-1840A Media Format:	<b>N/A</b>
MIL-D-28000A IGES:	<b>N/A</b>
MIL-M-28001B SGML:	<b>Fail</b>
MIL-R-28002A Raster:	<b>N/A</b>
MIL-D-28003 CGM:	<b>N/A</b>

Formal results with associated disclaimer are documented and available from the AFCTB.

**Air Force CALS Test Bed  
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Phone: 513-257-3085      FAX: 513-257-5881**

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## 1. Introduction

### 1.1 Background

The Department of Defense (DoD) Air Force Continuous Acquisition and Life-cycle Support (CALS) Test Network (AFCTN) is conducting tests of the military standard for the Automated Interchange of Technical Information, MIL-STD-1840A, and its companion suite of military specifications. The AFCTN is a DoD sponsored confederation of voluntary participants from industry and government managed by the Electronic Systems Center (ESC).

The primary objective of the AFCTN is to evaluate the effectiveness of the CALS standards for technical data interchange and to demonstrate the technical capabilities and operational suitability of those standards. Two general categories of tests are performed to evaluate the standards; formal and informal.

Formal tests are large and comprehensive, which follow a written test plan, require specific authorization from the DoD, and may take months to prepare, execute, and report.

Informal tests are quick and short, used by the AFCTN technical staff, to broaden the testing base. They include representative samples of the many systems and applications used by AFCTN participants. They also allow the AFCTN staff to gain feedback from many industry and government interpretations of the standards, to increase the base of participation in the CALS initiative, and respond to the many requests for help that come from participants. Participants take part voluntarily, benefit by receiving an evaluation of their latest implementation (interpretation) of the standards, interact with the AFCTN technical staff, gain experience using the standards, and develop increased confidence in them. The results of informal tests are reported in Quick Short Test Reports (QSTRs) that briefly summarize the standard(s) tested, the hardware and software used, the nature of the test, and the results.

---

## 1.2 Purpose

The purpose of this informal test is to analyze Air Force Document Type Definitions (DTDs) for Standard Generalized Markup Language (SGML) syntax, using several commercial and public domain SGML parsers, prior to placing them in the Defense Information Systems Agency (DISA) Asset Source for Software Engineering Technology (ASSET) repository.



## 2. Test Parameters

**Test Plan:** AFCTB 94-065

**Date of  
Evaluation:** 31 May 1994

**Evaluator:** George Elwood  
Air Force CALS Test Bed  
DET 2 HQ ESC/AV-2P  
4027 Colonel Glenn Hwy  
Suite 300  
Dayton OH 45431-1672

**Data  
Originator:** Kay Hill  
MAXIMA Corporation  
2372 Lakeview Drive  
Beavercreek OH 45431  
(513) 427-5888

**Data  
Description:** Technical Manual Test  
1 DTD

**Data  
Source System:**

Text/SGML  
SOFTWARE  
Unknown

**Evaluation Tools Used:**

MIL-M-28001 (SGML)  
PC 486/50  
Exoterica XGMLNormalizer v1.2e3.2  
Exoterica Validator v2.2 ex1  
McAfee & McAdam Sema Mark-it v2.3  
Public Domain sgmls 1.1

**Standards  
Tested:** MIL-M-28001B

### 3. 1840A Analysis

#### 3.1 External Packaging

The 3.5" diskette was hand delivered to the Air Force CALS Test Bed (AFCTB). It was not enclosed in any type of container.

The files received by the AFCTB were not MIL-STD-1840A. The files were not named per the standard conventions, as the stated purpose of the evaluation was the basic data structure.

### 4. SGML Analysis

The AFCTB has several parsers available for evaluating submitted DTD and text files. These tools are not used to generate a pass/fail but to report how commercially available software can handle the files. These products are used in the development of technical publications and are good indicators of usability. The use of these products is not an endorsement nor an indication of CALS capability. All operations were performed using the default settings unless specified in the report.

The goal was to configure the DTD under analysis as it would normally be used. However, for this analysis it was necessary to modify the DTD adding the "DOCTYPE doc [" statement to the start and the companion "]">" to the end of the DTD under evaluation, as stated in the comments of the DTD. If the parser did not support a formal file pointing to the location of the ISO character sets, this was added.

The DTD under evaluation MIL-M-87929A, Appendix A, Work Package, called a sequence of companion DTDs each in turn, as illustrated by the diagram below. These DTDs were delivered on the same diskette as the DTD to be evaluated. The DTDs were not changed except to point to the succeeding DTD in the sequence and to insert the location of the ISO character set files in the D784CB0.A3 DTD.

---

<!-- MIL-M-87929A Work Package DTD -->

D929AA0.ORG —> D807BA0.A1

└─> D784CB0.A3

The following notes apply to the parsing analysis as indicated in the ensuing paragraphs.

Note 1. Entity parameters defined more than once is a vaild SGML construct. The duplicate definition errors and/or warnings in this analysis do not indicate any problems.

Note 2. The occurrences of warnings "references defined, but not used," appeared because portions of the called DTD, i.e., MIL-M38784C, were not used. They were not used because the entity definitions of the DTD under analysis altered the execution path in the called DTD. The warnings in this analysis do not indicate any problems.

## 4.1 Exoterica Validator

The DTD file was evaluated using the Exoterica Validator *exl* parser. The basic DTD was modified by placing the concrete syntax file and "<!DOCTYPE doc [" at the start and the "]">" at the end. The parser reported 36 errors which related to the missing instance and are not considered errors for this analysis.

The parser reported 57 total warnings of three types. The first type warning was a parameter entity declared more than once. See Note 1 above.

```
<!-- **Warning** in "c:\ws\807b.dtd" (entity "%m38807b"), line 31,
      used in "\xgml\9465.dtd", line 277:
      A parameter entity name has been declared more than once.
      The entity is "%frnt".
      <!ENTITY % frnt "(idinfo, lep, verstat?, contents)" >
      ****
-->
```

The second type of warning related to elements defined but not used in any content model. See Note 2 above.

```
<!-- **Warning** in "\xgml\9465.dtd", line 651:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "APPENDIX".
-->
```

The third type warning was an element used but not defined. This warning indicates an error in the DTD syntax.

```
<!-- **Warning** in "\xgml\9465.dtd", line 651:
  An element name specified in a USEMAP declaration, ATTLIST declaration or
  content model is not defined by an ELEMENT declaration.
  The element name is "UNIT".
-->
```

## 4.2 Exoterica XGML Normalizer

The DTD file was parsed using the Exoterica *XGMLNormalizer* parser. The concrete syntax and "<!DOCTYPE doc [" were added to the start and "]">" to the end of the file. One warning was issued by this utility for an element used but not defined. This warning indicates an error in the DTD syntax.

```
C:\XGML\XGMLNORM.EXE --
Warning on line 651 in file 9465.dtd:
An undeclared element name was used in a content model.
The element is 'UNIT'.
```

Also reported was a TOTCAP exceeded warning. The TOTCAP was reset to 250000 for the DTD.

### 4.3 Public Domain sgmls

The DTD file was evaluated using the Public Domain *sgmls* parser version 1.1. The file was modified by adding the "<!DOCTYPE doc [" to the start and "]">" to the end of the file as stated in the comments in the DTD. The D807BA0.A1 and D784CB0.A3 files were used as the pointed to files. Twenty-one errors were reported by the parser, all of which were duplicate definitions. See Note 1 above.

sgmls: In file included at \ws\9465.dtd, line 206:  
Warning at c:\ws\807b.dtd, line 31 in declaration parameter 4:  
Duplicate specification occurred for "%frnt"; duplicate ignored.

Also reported was a TOTCAP exceeded warning. The TOTCAP was reported as 221093.

### 4.4 Sema Mark-it

The DTD file was evaluated using McAfee & McAdam's *Sema Mark-it* v2.3 parser. The file was modified by adding the concrete syntax and "<!DOCTYPE doc [" to the start and "]">" to the end of the file. Several warnings were issued by this program for duplicate elements. Five warnings were issued for elements used and not defined. This warning indicates an error in the DTD syntax.

## 5. Conclusions and Recommendations

The file D929AA0.ORG, MIL-M-87929A, Appendix A, Work Package, does not conform to the SGML syntax of ISO Standard 8879, as required by the CALS MIL-M-28001B specification. This conclusion is derived from the parser test warnings which indicate elements are used that are not defined.

---

## 6. Appendix A - Detailed SGML Analysis

### 6.1 Exoterica Validator

```
<!-- **Warning** in "c:\ws\807b.dtd" (entity "%m38807b"), line 31,
      used in "\xgml\9465.dtd", line 277:
      A parameter entity name has been declared more than once.
      The entity is "%frnt".
      <!ENTITY % frnt "(idinfo, lep, verstat?, contents)" >
      ~~~~~
-->
<!-- **Warning** in "c:\ws\807b.dtd" (entity "%m38807b"), line 45,
      used in "\xgml\9465.dtd", line 277:
      A parameter entity name has been declared more than once.
      The entity is "%yesorno".
      <!ENTITY % yesorno "NUMBER" >
      ~~~~~
-->
<!-- **Warning** in "c:\ws\807b.dtd" (entity "%m38807b"), line 88,
      used in "\xgml\9465.dtd", line 277:
      A parameter entity name has been declared more than once.
      The entity is "%ipbforwd".
      <!ENTITY % ipbforwd "(modelcover, serialization?, finding?, simassem?,
      ~~~~~
-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 18,
      used in "c:\ws\807b.dtd" (entity "%m38807b"), line 103,
      used in "\xgml\9465.dtd", line 277:
      A parameter entity name has been declared more than once.
      The entity is "%math".
      <!ENTITY % math "IGNORE" >
      ~~~~~
-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 33,
      used in "c:\ws\807b.dtd" (entity "%m38807b"), line 103,
      used in "\xgml\9465.dtd", line 277:
      A parameter entity name has been declared more than once.
      The entity is "%mathtxt".
      <!ENTITY % mathtxt " " >
      ~~~~~
-->
```

---

```
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 37,
      used in "c:\ws\807b.dtd" (entity "%m38807b"), line 103,
      used in "\xgml\9465.dtd", line 277:
      A parameter entity name has been declared more than once.
      The entity is "%shortitleuse".
      <!ENTITY % shortitleuse "IGNORE" >
      ~~~~~
```

```
-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 45,
      used in "c:\ws\807b.dtd" (entity "%m38807b"), line 103,
      used in "\xgml\9465.dtd", line 277:
      A parameter entity name has been declared more than once.
      The entity is "%shortitle".
      <!ENTITY % shortitle " " >
      ~~~~~
```

```
-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 47,
      used in "c:\ws\807b.dtd" (entity "%m38807b"), line 103,
      used in "\xgml\9465.dtd", line 277:
      A parameter entity name has been declared more than once.
      The entity is "%yesorno".
      <!ENTITY % yesorno "NUMBER" >
      ~~~~~
```

```
-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 50,
      used in "c:\ws\807b.dtd" (entity "%m38807b"), line 103,
      used in "\xgml\9465.dtd", line 277:
      A parameter entity name has been declared more than once.
      The entity is "%itemid".
      <!ENTITY % itemid
      ~~~~~
```

```
-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 62,
      used in "c:\ws\807b.dtd" (entity "%m38807b"), line 103,
      used in "\xgml\9465.dtd", line 277:
      A parameter entity name has been declared more than once.
      The entity is "%content".
      <!ENTITY % content
      ~~~~~
```

```
-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 71,
      used in "c:\ws\807b.dtd" (entity "%m38807b"), line 103,
      used in "\xgml\9465.dtd", line 277:
      A parameter entity name has been declared more than once.
      The entity is "%bodyatt".
      <!ENTITY % bodyatt
      ~~~~~
```

```
-->
```



---

```
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 82,
      used in "c:\ws\807b.dtd" (entity "%m38807b"), line 103,
      used in "\xgml\9465.dtd", line 277:
      A parameter entity name has been declared more than once.
      The entity is "%list".
      <!ENTITY % list "(seqlist | randlist | deflist)" >
      ****

-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 86,
      used in "c:\ws\807b.dtd" (entity "%m38807b"), line 103,
      used in "\xgml\9465.dtd", line 277:
      A parameter entity name has been declared more than once.
      The entity is "%spcpara".
      <!ENTITY % spcpara "(warning?, caution?, note?)" >
      ****

-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 107,
      used in "c:\ws\807b.dtd" (entity "%m38807b"), line 103,
      used in "\xgml\9465.dtd", line 277:
      A parameter entity name has been declared more than once.
      The entity is "%frnt".
      <!ENTITY % frnt "(idinfo, warnpage?, chginsst?, lep, verstat?,
      ****

-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 117,
      used in "c:\ws\807b.dtd" (entity "%m38807b"), line 103,
      used in "\xgml\9465.dtd", line 277:
      A parameter entity name has been declared more than once.
      The entity is "%fpi".
      <!ENTITY % fpi "(para0, (para0 | %list; | symsect | abbrsect |
      ***

-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 126,
      used in "c:\ws\807b.dtd" (entity "%m38807b"), line 103,
      used in "\xgml\9465.dtd", line 277:
      A parameter entity name has been declared more than once.
      The entity is "%titles".
      <!ENTITY % titles "title %shorttitle;" >
      ****

-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 133,
      used in "c:\ws\807b.dtd" (entity "%m38807b"), line 103,
      used in "\xgml\9465.dtd", line 277:
      A parameter entity name has been declared more than once.
      The entity is "%fig".
      <!ENTITY % fig "(%titles;, (subfig+ | (graphic | macrograph |
      ***

-->
```

---

---

```
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 165,
      used in "c:\ws\807b.dtd" (entity "%m38807b"), line 103,
      used in "\xgml\9465.dtd", line 277:
      A parameter entity name has been declared more than once.
      The entity is "%bodyele".
      <!ENTITY % bodyele "(chapter, chapter+, ddchapter?)" >
      ~~~~~
-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 190,
      used in "c:\ws\807b.dtd" (entity "%m38807b"), line 103,
      used in "\xgml\9465.dtd", line 277:
      A parameter entity name has been declared more than once.
      The entity is "%graphatt".
      <!ENTITY % graphatt
      ~~~~~
-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 228,
      used in "c:\ws\807b.dtd" (entity "%m38807b"), line 103,
      used in "\xgml\9465.dtd", line 277:
      A parameter entity name has been declared more than once.
      The entity is "%entryatt".
      <!ENTITY % entryatt
      ~~~~~
-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 248,
      used in "c:\ws\807b.dtd" (entity "%m38807b"), line 103,
      used in "\xgml\9465.dtd", line 277:
      A parameter entity name has been declared more than once.
      The entity is "%lrp".
      <!ENTITY % lrp "(tmidno, title)+>
      ~~~
-->
<!-- **Warning** in "\xgml\9465.dtd", line 651:
      An element is not allowed in the document instance because it does not
      appear in any accessible content model or it is completely excluded.
      The element is "APPENDIX".
-->
```

<<<<< PART OF MESSAGE TEXT REMOVED HERE >>>>>

```
The element is "BODY".
The element is "CHAPTER".
The element is "CHGINSSHT".
The element is "CHGLIST".
The element is "CHGREC".
The element is "DATE".
The element is "DATEINC".
The element is "DDCHAPTER".
The element is "DDDESC".
The element is "DDINDEX".
The element is "DDINTRO".
The element is "DDLIST".
The element is "DOC".
The element is "DOCIPB".
The element is "DOCPART".
The element is "ECPNO".
The element is "FOREWORD".
The element is "GLOSSARY".
The element is "INDEX".
The element is "INSERTPG".
The element is "INTRO".
The element is "PENAPP".
The element is "PGNO".
The element is "PREFACE".
The element is "RATD".
The element is "REAR".
The element is "REINTEST".
The element is "REMOVEPG".
The element is "REPTEST".
The element is "SECTION".
The element is "SHORTTITLE".
The element is "TYPENO".
-->
<!-- **Warning** in "\xgml\9465.dtd", line 651:
  An element name specified in a USEMAP declaration, ATTLIST declaration or
  content model is not defined by an ELEMENT declaration.
  The element name is "UNIT".
-->
  The element is "VOLUME".
  The element is "WARNPAGE".
-->

<<<<< ERRORS FROM THIS POINT ON RELATE TO NO DOCUMENT INSTANCE AND ARE NOT CONSIDERED
FOR THIS REPORT >>>>>

<!-- **Error** in "\xgml\9465.dtd", line 652:
  The document instance must consist of at least one tag or data character.
  The following element can start: "DOCWP".
```

---

```
-->
<!-- Capacity points/limits:
    TOTALCAP =223774/250000
    ENTCAP   =13504/200000
    ENTCHCAP =19700/70000
    ELEMCAP  =8608/70000
    GRPCAP   =65056/70000
    EXGRPCAP =1536/70000
    EXNMCAP  =3936/70000
    ATTCAP   =78336/200000
    ATTCHCAP =1895/70000
    AVGRPCAP =30944/70000
    NOTCAP    =96/70000
    NOTCHCAP  =163/70000
    IDCAP     =0/70000
    IDREFCAP  =0/70000
    MAPCAP    =0/70000
    LKSETCAP  =0/70000
    LKNMCAP   =0/70000
-->
<!-- 36 errors and 57 warnings reported. -->
```

---

## 6.2 Exoterica XGMLNormalizer Parser

C:\XGML\XGMLNORM.EXE --

Warning on line 651 in file 9465.dtd:

An undeclared element name was used in a content model.

The element is 'UNIT'.

## 6.3 Public Domain sgmls Log

sgmls: In file included at \ws\9465.dtd, line 206:  
Warning at c:\ws\807b.dtd, line 31 in declaration parameter 4:  
Duplicate specification occurred for "%frnt"; duplicate ignored

sgmls: In file included at \ws\9465.dtd, line 206:  
Warning at c:\ws\807b.dtd, line 45 in declaration parameter 4:  
Duplicate specification occurred for "%yesorno"; duplicate ignored

sgmls: In file included at \ws\9465.dtd, line 206:  
Warning at c:\ws\807b.dtd, line 90 in declaration parameter 4:  
Duplicate specification occurred for "%ipbforwd"; duplicate ignored

sgmls: In file included at \ws\9465.dtd, line 206:  
In file included at c:\ws\807b.dtd, line 103:  
Warning at i:\dtd\784c.dtd, line 18 in declaration parameter 4:  
Duplicate specification occurred for "%math"; duplicate ignored

sgmls: In file included at \ws\9465.dtd, line 206:  
In file included at c:\ws\807b.dtd, line 103:  
Warning at i:\dtd\784c.dtd, line 33 in declaration parameter 4:  
Duplicate specification occurred for "%mathtxt"; duplicate ignored

sgmls: In file included at \ws\9465.dtd, line 206:  
In file included at c:\ws\807b.dtd, line 103:  
Warning at i:\dtd\784c.dtd, line 37 in declaration parameter 4:  
Duplicate specification occurred for "%shortitleuse"; duplicate ignored

sgmls: In file included at \ws\9465.dtd, line 206:  
In file included at c:\ws\807b.dtd, line 103:  
Warning at i:\dtd\784c.dtd, line 45 in declaration parameter 4:  
Duplicate specification occurred for "%shortitle"; duplicate ignored

sgmls: In file included at \ws\9465.dtd, line 206:  
In file included at c:\ws\807b.dtd, line 103:  
Warning at i:\dtd\784c.dtd, line 47 in declaration parameter 4:  
Duplicate specification occurred for "%yesorno"; duplicate ignored

sgmls: In file included at \ws\9465.dtd, line 206:  
In file included at c:\ws\807b.dtd, line 103:  
Warning at i:\dtd\784c.dtd, line 60 in declaration parameter 4:  
Duplicate specification occurred for "%itemid"; duplicate ignored

sgmls: In file included at \ws\9465.dtd, line 206:  
In file included at c:\ws\807b.dtd, line 103:  
Warning at i:\dtd\784c.dtd, line 69 in declaration parameter 4:  
Duplicate specification occurred for "%content"; duplicate ignored

sgmls: In file included at \ws\9465.dtd, line 206:  
In file included at c:\ws\807b.dtd, line 103:  
Warning at i:\dtd\784c.dtd, line 80 in declaration parameter 4:  
Duplicate specification occurred for "%bodyatt"; duplicate ignored

sgmls: In file included at \ws\9465.dtd, line 206:  
In file included at c:\ws\807b.dtd, line 103:  
Warning at i:\dtd\784c.dtd, line 82 in declaration parameter 4:  
Duplicate specification occurred for "%list"; duplicate ignored

sgmls: In file included at \ws\9465.dtd, line 206:  
In file included at c:\ws\807b.dtd, line 103:  
Warning at i:\dtd\784c.dtd, line 86 in declaration parameter 4:  
Duplicate specification occurred for "%spcpara"; duplicate ignored

sgmls: In file included at \ws\9465.dtd, line 206:  
In file included at c:\ws\807b.dtd, line 103:  
Warning at i:\dtd\784c.dtd, line 109 in declaration parameter 4:  
Duplicate specification occurred for "%frnt"; duplicate ignored

sgmls: In file included at \ws\9465.dtd, line 206:  
In file included at c:\ws\807b.dtd, line 103:  
Warning at i:\dtd\784c.dtd, line 118 in declaration parameter 4:  
Duplicate specification occurred for "%fpi"; duplicate ignored

sgmls: In file included at \ws\9465.dtd, line 206:  
In file included at c:\ws\807b.dtd, line 103:  
Warning at i:\dtd\784c.dtd, line 126 in declaration parameter 4:  
Duplicate specification occurred for "%titles"; duplicate ignored

sgmls: In file included at \ws\9465.dtd, line 206:  
In file included at c:\ws\807b.dtd, line 103:  
Warning at i:\dtd\784c.dtd, line 134 in declaration parameter 4:  
Duplicate specification occurred for "%fig"; duplicate ignored

sgmls: In file included at \ws\9465.dtd, line 206:  
In file included at c:\ws\807b.dtd, line 103:  
Warning at i:\dtd\784c.dtd, line 165 in declaration parameter 4:  
Duplicate specification occurred for "%bodyele"; duplicate ignored

sgmls: In file included at \ws\9465.dtd, line 206:  
In file included at c:\ws\807b.dtd, line 103:  
Warning at i:\dtd\784c.dtd, line 204 in declaration parameter 4:  
Duplicate specification occurred for "%graphatt"; duplicate ignored

sgmls: In file included at \ws\9465.dtd, line 206:  
In file included at c:\ws\807b.dtd, line 103:  
Warning at i:\dtd\784c.dtd, line 238 in declaration parameter 4:  
Duplicate specification occurred for "%entryatt"; duplicate ignored

sgmls: In file included at \ws\9465.dtd, line 206:  
In file included at c:\ws\807b.dtd, line 103:  
Warning at i:\dtd\784c.dtd, line 248 in declaration parameter 4:  
Duplicate specification occurred for "%lrp"; duplicate ignored

---

sgmls: Warning at \ws\9465.dtd, line 580 at record end:  
Element "UNIT" used in DTD but not defined  
sgmls: SGML error:  
Capacity limit TOTALCAP exceeded by 21093 points

## 6.4 Sema Mark-it Log

<!--\*\*\* file:\xgml\9465.dtd line:361 pos:13459  
Generic identifiers can be declared only once.  
Remove duplicate EFFECT declaration.-->

<!--\*\*\* file:\xgml\9465.dtd line:362 pos:13493  
An attribute list has already been associated with this  
element (EFFECT). (MARK-IT will add the new declaration to previous  
declaration, but the two declarations will need to be concatenated before  
the DTD is exported.)-->

<!--\*\*\* file:\xgml\9465.dtd line:362 pos:13505  
Attribute SECURITY has already been declared for the EFFECT element.  
Duplicated attribute names must be changed.-->

<!--\*\*\* file:\xgml\9465.dtd line:362 pos:13505  
The U name token has already been used as a name token in another  
group in this attribute definition list. Duplicated entries must be removed.-->

<!--\*\*\* file:\xgml\9465.dtd line:362 pos:13505  
The C name token has already been used as a name token in another  
group in this attribute definition list. Duplicated entries must be removed.-->

<!--\*\*\* file:\xgml\9465.dtd line:362 pos:13505  
The S name token has already been used as a name token in another  
group in this attribute definition list. Duplicated entries must be removed.-->

<!--\*\*\* file:\xgml\9465.dtd line:589 pos:20729  
Generic identifiers can be declared only once.  
Remove duplicate SYSNO declaration.-->

<!--\*\*\* file:\xgml\9465.dtd line:590 pos:20761  
An attribute list has already been associated with this  
element (SYSNO). (MARK-IT will add the new declaration to previous  
declaration, but the two declarations will need to be concatenated before  
the DTD is exported.)-->

<!--\*\*\* file:\xgml\9465.dtd line:590 pos:20773  
Attribute SECURITY has already been declared for the SYSNO element.  
Duplicated attribute names must be changed.-->

---

<!--\*\*\* file:\xgml\9465.dtd line:590 pos:20773  
The U name token has already been used as a name token in another  
group in this attribute definition list. Duplicated entries must be removed.-->

<!--\*\*\* file:\xgml\9465.dtd line:590 pos:20773  
The C name token has already been used as a name token in another  
group in this attribute definition list. Duplicated entries must be removed.-->

<!--\*\*\* file:\xgml\9465.dtd line:590 pos:20773  
The S name token has already been used as a name token in another  
group in this attribute definition list. Duplicated entries must be removed.-->

<!--\*\*\* file:\xgml\9465.dtd line:315 pos:11948  
Warning: Element UNIT, used in the model of element CONTLIST,  
has not been declared in the DTD.-->

<!--\*\*\* file:\xgml\9465.dtd line:440 pos:16257  
Warning: Element IPBFORWARD, used in the model of element IPBWP,  
has not been declared in the DTD.-->

<!--\*\*\* file:\xgml\9465.dtd line:440 pos:16257  
Warning: Element PL, used in the model of element IPBWP,  
has not been declared in the DTD.-->

<!--\*\*\* file:\xgml\9465.dtd line:440 pos:16257  
Warning: Element NUMINDX, used in the model of element IPBWP,  
has not been declared in the DTD.-->

<!--\*\*\* file:\xgml\9465.dtd line:440 pos:16257  
Warning: Element RFDSINDX, used in the model of element IPBWP,  
has not been declared in the DTD.-->

ATTCNT --100-- 48  
ATTSPLEN --960-- 0  
BSEQLEN --960-- 0  
DTAGLEN --16-- 0  
DTEMPLEN --16-- 0  
ENTLVL --16-- 3  
GRPCNT --32-- 22  
GRPGTCNT --96-- 37  
GRPLVL --16-- 6  
LITLEN --3048-- 1514  
NAMELEN --32-- 13  
NORMSEP --2-- 0  
PILEN --240-- 0  
TAGLEN --960-- 0  
TAGLVL --24-- 0  
MSDLVL --24-- 2



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TOTALCAP --250000-- 202605  
ENTCAP --200000-- 16640  
ENTCHCAP --70000-- 16359  
ELEMCAP --70000-- 8096  
GRPCAP --70000-- 66720  
EXGRPCAP --70000-- 1536  
EXNMCAP --70000-- 3904  
ATTCAP --200000-- 60128  
ATTCHCAP --70000-- 1574  
AVGRPCAP --70000-- 27392  
NOTCAP --70000-- 96  
NOTCHCAP --70000-- 160  
IDCAP --70000-- 0  
IDREFCAP --70000-- 0  
MAPCAP --70000-- 0  
LKSETCAP --70000-- 0  
LKNMCAP --70000-- 0